

BOLOTIN, V.V., prof.; DARKOV, A.V., prof.; KRYUKOVSKIY, S.S., prof.;  
SOKOLOV, S.N., prof.

[Program for the course in strength of materials for students  
not specializing in mechanics in higher technical schools]  
Programma kursa soprotivleniia materialov dlia nemekhanicheskikh  
spetsial'nostei vtuzov. Moskva, Gos.izd-vo "Sovetskaya nauka,"  
1959. 14 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego  
spetsial'nogo obrazovaniia.  
(Strength of materials--Study and teaching)

PONOMAREV, S.D., prof.; TIKHOMIROV, Ye.N., prof.; SERENSEN, S.V., prof.;  
MALININ, N.N., prof.; POPOV, A.A., prof.; KRYUKOVSKIY, S.S., prof.;  
SOKOLOV, S.N., prof.

[Program of the course "Strength of materials" for departments of  
mechanical engineering in technical institutes] Programma kursa  
"Soprotivlenie materialov" dlia mashinostroitel'nykh i mekhaniche-  
skikh spetsial'nostei vysshikh tekhnicheskikh uchebnykh zavedenii.  
Moskva, Izd-vo "Vyshaia shkola," 1959. 15 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spe-  
tsial'nogo obrazovaniya.  
(Strength of materials—Study and teaching)

## PART I 300.1 EXPLANATION 307/346

Академия наук СССР. Институт машиноведения

Вопросы прочности материалов и конструкций (Problems of Strength of Materials and Structures) Moscow, 1959. 299 p. Kirenskiy slip inserted. 3,200 copies printed.

Resp. Ed.: D. N. Reshetov, Professor, Doctor of Technical Sciences; Ed. of Publishing House: O. B. Gorshkov; Tech. Ed.: S. T. Shilin.

PURPOSE: This book is intended for engineers and scientists concerned with the problems of the strength of materials and construction.

COVERAGE: The book contains 28 articles on the strength of materials in general and of machine construction in particular. This collection was prepared under the direction of the Institute of Mechanical Engineering of the AS USSR in honor of the 30th anniversary of the founding of the Institute. The collection contains 30 years of scientific activity. The preface gives a short sketch of his life and professional activities. The collection is divided into two parts. The first part contains 13 articles on general problems of strength and the strength of machine construction materials. The second part contains 15 articles on dynamics and calculation of strength and rigidity. There are references at the end of each article.

## PART II. DYNAMICS AND CALCULATION OF STRENGTH AND RIGIDITY

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AVAILABLE: Library of Congress

Card 6/6

AC/SC  
6-27-56

SHORIN, S.N., doktor tekhn. nauk, prof., red.; SHCHEPKIN, S.I., zasl. deyatel' nauki i tekhniki, prof., otv. red.; LASTOVTSEV, A.M., prof. red.; KARAVAYEV, N.M., prof., red.; KOKOREV, D.T., prof., red.; PETROKAS, L.V., prof., red.; RESHCHIKOV, P.M., dots., red.; SOKOLOV, S.N., prof., red.; SOKOLOV, S.I., prof., red.; KHODZHAYEV, A.M., dots., red.; LEBEDEV, K.I., kand. tekhn. nauk, dots. red.; TAIROVA, A.L., red. izd-va; UVAROVA, A.F., tekhn. red.

[Investigation and calculation of heat engineering and power generating processes] Issledovaniia i raschety teploenergeticheskikh i energo-khimicheskikh protsessov; sbornik statei. Pod red. S.N.Shorina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 137 p. (MIRA 14:10)

1. Moscow. Institut khimicheskogo mashinostroyeniya.  
(Heat engineering) (Power engineering)

L 27608-65 EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EMP(j)/EMA(h) pc-4/pr-4/ps-4/pi-4/  
Pu-4 RPL WW/JW/RM

ACCESSION NR: AP5001524

S/0152/64/000/011/0069/0070

AUTHOR: Sokolov, S. N.

TITLE: New equation for calculating the heat capacity of certain liquid hydrocarbons at various temperatures

49  
37B

SOURCE: IVUZ. Neft' i gaz, no. 11, 1964, 69-70

TOPIC TAGS: heat capacity, liquid hydrocarbon, hydrocarbon heat capacity, aromatic hydrocarbon, aliphatic hydrocarbon

ABSTRACT: A new equation is proposed for calculating the heat capacity of liquid hydrocarbons of the methane series and of certain aromatic hydrocarbons over the entire experimental temperature range:

$$C_p = C_1 + M^{\frac{3}{4}} \frac{(T - 0.5T_s)}{[T(T_s - T)]^{\frac{1}{2}}} \cdot \frac{T}{T_s} \quad (1)$$

where M is the molecular weight of the liquid;  $C_p$  is the heat capacity of the hydrocarbon at constant pressure and temperature T (°K), in cal/mole·deg;  $C_1$  is

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L 2760E-65

ACCESSION NR: AP5001524

the heat capacity of the hydrocarbon at constant pressure and temperature  $0.5 T_c$  ( $T_c$  being the critical temperature). For hydrocarbons of the methane series, values of  $C_1$  were obtained from the equation

$$C_1 = -8,318 + 2,6 n, \quad (2)$$

where  $n$  is the number of atoms in the hydrocarbon molecule. Values of  $C_p$  obtained from equation (1) for n-pentane, n-hexane, n-heptane, n-octane, n-nonane, n-decane, benzene, toluene, and p-xylene at various temperatures are tabulated. Orig. art. has: 1 table and 2 formulas.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze  
(Moscow aeronautical institute)

SUBMITTED: 23Jun64

ENCL: 00

SUB CODE: OC, TD

NO REF SOV: 001

OTHER: 001

Card 2/2

L 47177-66 EWT(d)/ESP(1) DP(c) GG/BE

ACC NR: AP6032488

SOURCE CODE: UR/0413/66/000/017/0029/0029

INVENTOR: Sokolov, S. N.

ORG: none

TITLE: Optical memory<sup>166</sup> unit. Class 21, No. 185367

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 29

TOPIC TAGS: computer memory, laser optics

ABSTRACT: This Author Certificate introduces an optical memory unit consisting of controlled light sources, a write information register, a photodisk, and light sensors (see Fig. 1). The coherent monochromatic light sources are placed in front

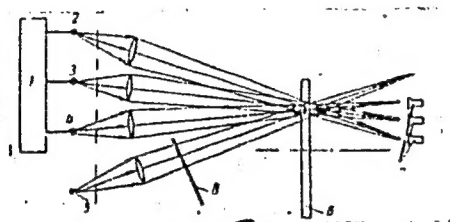


Fig. 1. Optical memory

1 - Register; 2, 3, 4 - coherent monochromatic light sources; 5 - reference source; 6 - photodisk; 7 - photo-sensors; 8 - etched glass.

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UDC: 681.142.07

ACC NR: AP6032488

of the photodisk and are coupled to the register containing the information to be stored. The coherent reference source is placed in front of an etched glass while the light sensors are located at the focal points of the system behind the photodisk. The advantages of this memory are its reliability and the increased write information density permitted by superimposing the stored information. Orig. art. has: 1 figure. [BD]

SUB CODE: 09/ SURM DATE: 22Apr65/ . ATD PRESS: 5094

Card 2/2

SKOLOV, S.N.

Prevention of acute empyema following pneumonectomy [with summary  
in English]. Vest.khir. 80 no.3:47-52 Mr '58. (MIRA 11:4)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (nach. - prof. I.S.  
Kolesnikov) Voenno-meditsinskoy ordena Lenina akademii im. S.M.  
Kirova. Adres avtora: Leningrad, Botkinskaya ul. 23, gospi'tal'-  
naya khirurgicheskaya klinika Voenno-meditsinskoy ordena Lenina  
akademii im. S.M.Kirova.

(PNEUMONECTOMY, compl.

acute empyema, prev. )

(EMPYEMA, PLEURAL, etiol. & pathogen.

pneumonectomy, prev. (Rus))

KOLESNIKOV, I.S.; SOKOLOV, S.N.

Prevention of pleural empyema following partial resection of the lung. Grud. khir. l. no.2:71-78; Mr-Ap '59. (MIRA 16:7)

1. Iz gosspital'noy khirurgicheskoy kliniki Voenno-medsinskoy ordena Lenina akademii imeni Kirova (nachal'nik-general-mayor meditsinskoy sluzhby prof. I.S.Kolesnikov) Adres avtora: Lenin-grad, Botkinskaya ul.,d.23; Gosspital'naya khirurgicheskaya klini-ka.

(EMPYEMA) (PLEURA--ABSCESS) (LUNGS--SURGERY)

KOLESHNIKOV, Ivan Stepanovich; SOKOLOV, Sergey Nikolayevich

[Prophylaxis and treatment of empyema after resection of the lung] Profilaktika i lechenie empiem plevry posle rezektsii legkogo. Leningrad, Medgiz, 1960. 110 p.

(MIRA 14:2)

(LUNGS--SURGERY)

(EMPYEMA)

KOLESNIKOV, I.S.; SOKOLOV, S.N.

Treatment of postoperative empyema of the pleura following  
pneumonectomy and partial resection of the lungs. Grud. khir.  
2 no.1:67-72 Ja-F '60. (MIRA 15:3)

1. Iz gosspital'noy khirurgicheskoy kliniki Voenno-medi-  
tsinskoy ordena Lenina akademii imeni S.M. Kirova. Adres  
avtora: Leningrad, Botkinskaya, 23, Khirurgicheskaya klinika  
Voenno-meditsinskoy ordena Lenina akademii imeni Kirova.

(EMPYEMA)

(PLEURA---ABSCESS)

(LUNGS---SURGERY)

KOLESNIKOV, I. S.; SOKOLOV, S. N.; MEZHEVIKIN, N. I.

Basic variations in the segmental arteries of the upper lobe of the right lung as applied to segmentectomies. Grud. khir. no.4:61-65 '61. (MIRA 14:12)

1. Iz kafedry gospital'noy khirurgii (nach. - chlen-korrespondent AMN SSSR prof. A. N. Maksimenkov) Voenno-meditsinskoy ordena Lenina akademii imeni S. M. Kirova.

(PULMONARY ARTERY--SURGERY) (LUNGS--BLOOD SUPPLY)

KOLESNIKOV, I.S.; SOKOLOV, S.N.; MEZHEVIKIN, N.I.

Basic variants of the veins in the superior lobe of the right lung and some problems in segmental resections of the lung in connection with disorders of the venous outflow. Grud.khir. 3 no.6:62-69 (MIRA 15:3)  
N-D '61.

1. Iz kafedry gosspital'noy khirurgii Voyenno-morskoy ordena Lenina akademii (VMOLA) imeni S.M. Kirova (nach. - prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii Voyenno-morskoy ordena Lenina akademii imeni S.M. Kirova (nach. - chlen-korrespondent AMN SSSR prof. A.N. Maksimenko).  
(LUNGS---SURGERY) (PULMONARY VEIN)

PUTOV, N.V.; SOKOLOV, S.N.

"Segmental and subsegmental pulmonary resection in tuberculosis patients" by N.I. Gerasimenko. Reviewed by N.V. Putov, S.N. Sokolov.  
Vest.khir. 87 no.11:127-129 N '61. (MIRA 15:11)  
(TUBERCULOSIS) (GERASIMENKO, N.I.)

KOLESNIKOV, I.S., prof.; PUFOV, N.V., prof.; YERMOLAYEV, V.R., kand.med.  
nauk; SOKOLOV, S.N., kand.med.nauk

Acute blood circulation disorders in the residual lung part  
following patial resections. Vest.khir.90 no.2:128-135 F'63.  
(MIRA 16:7)

1. Iz gosptal'noy khirurgicheskoy kliniki (nachal'nik prof.  
I.S.Kolesnikov) Voenno-meditsinskoy ordena Lenina akademii  
imeni S.M.Kirova. Adres avtorov: Leningrad, Botkinskaya ul.,  
d.23, Gosptal'naya khirurgicheskaya klinika Voenno-meditsin-  
skoy ordena Lenina akademii imeni Kirova.

(LUNGS—SURGERY)

(BLOOD—CIRCULATION, DISORDERS OF)

KOLECHNIKOV, I.S.; YERMOLAYEV, V.R.; SOKOLOV, S.N.; ME NEVLIKIN, N.I.

Resection of the basal segments of the lungs. Chest, khir. 5  
no.5:26-51 8-9 '63. (MIRA 17:8)

1. Iz kafedry gosпитal'noy khirurgii (nachal'nik - prof. I.S. Kolesnikov) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova. Adres avtorov: Leningrad K-9, Botlichnaya ul., d.23, Klinika gosпитal'noy khirurgii Voenno-meditsinskoy ordena Lenina akademii.

KOLESNIKOV, I.S., prof.; YERMOLAYEV, V.R.; kand. med. nauk; SOKOLOV, S.N.,  
kand. med. nauk

Surgical anatomy and technique of resection of the lingular  
segments of the left lung. Vest. Khir. 91 no.12:27-32 D '63.  
(MIRA 17:9)

1. Iz 1-y gospi'tal'noy khirurgicheskoy kliniki (nachal'nik-  
prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii (nachal'-  
nik -- prof. A.M. Maksimenkov) Voenno-meditsinskoy ordena Lenina  
akademii imeni Kirova. Adres avtorov: Leningrad, K-9, Botkinskaya  
ulitsa, 23, klinika gospi'tal'noy khirurgii Voenno-meditsinskoy  
ordena Lenina akademii imeni Kirova.

KOLESHNIKOV, I.S., prof.; YETIMOLAYEV, V.R.; SOLOVYOV, S.N.; MEZMEYKHIN, N.I.

Resection of the mediobasal segment of the lung. Vest. khir.  
92 no.4:16-21 Ap '64 (MIRA 18:1)

1. Iz gosspital'noy khirurgicheskoy kliniki (nachal'nik - prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii i topograficheskoy anat omii (nachal'nik - prof. A.M. Bekasimov) Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. Adres avtorov: Leningrad, K-2, Botkinskaya ul, 23, gosspital'naya khirurgicheskaya klinika Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

SOV/52-2-4-5/7

AUTHORS: Klepikov, N. P. and Sokolov, S. N. (Moscow)

TITLE: Non-Linear Confluence Analysis. (Nelineyny konflyuyentnyy analiz.)

PERIODICAL: Teoriya Veroyatnostey i yeye Primeneniya, 1957, Vol.II, Nr.4, pp.473-475. (USSR)

ABSTRACT: In the treatment of experimental results there frequently arises the problem of finding a curve with a finite number of degrees of freedom which best approximates to the set of experimental points, and also of determining the optimum number of degrees of freedom of such a curve. If the points in a space  $l$  of variables obtained from experiment have errors in fewer than  $l$  directions, then the problem is reduced to regression analysis. If experimental errors are also present in the measurements of all the coordinates of the points the problem becomes considerably more complicated. Problems of such a nature are related to confluence analysis. There are possibly cases when a quantity free from error is not an independent variable, and then regression analysis can conveniently replace confluence analysis. In the

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SOV/52-2-4-5/7

Non-Linear Confluence Analysis.

literature up to the present time only the methods of linear confluence analysis are described (Refs.1,2,3). Non-linear confluence analysis is considered from the standpoint of the maximum likelihood method. The likelihood function is a product of curvilinear integrals of the respective distribution densities of each point of the curve. For a sufficiently small curvature and a normal error distribution, these integrals are evaluated approximately, resulting in distribution functions of the normal type but with modified weights and shifted experimental points. Thus, a confluent problem is reduced to an ordinary regressional one. Weight modifications and point shifts may be found by means of successive approximations. There are 4 references, of which 3 are English and 1 Soviet.

ASSOCIATION: Ob'yedinennyy Institut Yadernykh Issledovaniy  
(United Institute of Nuclear Research).

Card 2/3

The Green's Function of the Photon with an Accuracy up to  $e^4$ . 56-5-54/55

(No reproduction).

ASSOCIATION Unified Institute for Nuclear Research  
PRESENTED BY  
SUBMITTED 1.3.1957  
AVAILABLE Library of Congress.  
Card 2/2

SOKOLOV, S. N., SILIN, I. N., AMAGLOBELI, N. S., KAZATINOV, YU. M.,

"Determination of the Coupling Constant of Pion-Nucleon Interaction by  
Differential Cross Section for Elastic (NP)- Scattering at 90, 380 - 500, 630 Mev"

paper presented at the Intl Conference on High Energy Physics, Rochester, N. Y.  
and/or Berkly California, 25 Aug - 16 Sep 1960.

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S/C21/60/000/008/003/004  
BC 3/8067

24.6400

AUTHOR: Sokolov, S. Scientific Collaborator

TITLE: The First Antihyperons 19

PERIODICAL: Tekhnika molodezhi, 1960, No. 8, pp. 16-17

TEXT: The author reports on a discovery made at Dubna near Moscow in March 1960. It is the discovery of a new elementary particle: the anti-sigma-minus hyperon. This new particle has a positive electric charge. Its mass is equal to 2340 electron masses. Its life was  $1.2 \cdot 10^{-10}$  sec. This discovery was the result of collaboration of a group of scientists under the supervision of Professor Van Gan-gan (China) and Academician V. I. Vaksler (USSR). The following scientists belonged to this group: N. M. Vinogradov, Ye. N. Kladnitskaya, A. A. Kuznetsov, A. V. Nikitin, and M. I. Solov'yev of the USSR, L. Vrana of Czechoslovakia, Van Tsu-tszen and P. A. Datsao of China, Kim Khi In of the Korean People's Republic, A. Mikhai of Romania, and Nguyen Din Ty of the People's Republic of Vietnam. A further new elementary particle, the anti-sigma-plus hyperon, was discovered soon after by three Italian scientists. It is similar to the particle

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The First Antihyperons

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S/029/60/000/008/003/004  
B013/B067

discovered at Dubna but is somewhat lighter and has a negative electric charge. These two particles did not surprise physicists for they had been theoretically predicted though not practically observed. At Dubna, 40,000 photographs had to be taken and examined until scientists succeeded in identifying the above particle (Fig. p. 17, center). The discovery of the new particle further completes the concept of the structure of matter and nuclear forces. It is a further contribution to the establishment of a more complete theory of elementary particles. There are 3 figures.

ASSOCIATION: Ob'yedinennyy Institut yadernykh issledovaniy, Diona  
(Joint Institute of Nuclear Research, Dubna)

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S/056/60/039/004/007/048  
B004/B070

24.6900  
AUTHORS:

Amaglobeli, N. S., Kazarinov, Yu. M., Sokolov, S. N.,  
Silin, I. N.

TITLE:

Determination of the Constant of the  $\pi$ -Meson - Nucleon  
Interaction on the Basis of the Differential Cross Section  
of Elastic np-Scattering

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 4(10), pp. 948-953

TEXT: In the introduction, the authors discuss the determination of the  
pion - nucleon interaction constant  $f$  suggested by G. F. Chew (Ref. 1).  
They discuss the different values obtained for  $f$ , which can not be  
explained as being due to experimental errors. In order to clarify this  
problem, they evaluate all the available data on np scattering for 90,  
380-400, and 630 Mev (Refs. 2,3) for determining the constant  $f$  taking  
account of both the poles of the real part of the np scattering  
amplitude. They start out from the equation (1):

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Determination of the Constant of the  $\pi$ -Meson -  
Nucleon Interaction on the Basis of the  
Differential Cross Section of Elastic  
np-Scattering

S/056/60/039/004/007/048  
B004/B070

$$\sigma_{np}(\vartheta) = a_1 b^2 \left[ 1/(x_0 - x)^2 + 4/(x_0 + x)^2 \right] + a_2/(x_0 - x) + a_3/(x_0 + x) + \sum_{n=C}^{n_{\max}} a_n x^n$$

, where  $x_0 = 1 + \mu^2/2k^2$ ,  $x = \cos \vartheta$ ,  $b = \mu^2/2k^2$ ,  $a_1, a_2,$

... $a_n$  are coefficients which are calculated by the method of least squares. The results are given in Tables 1 - 4. The authors come to the conclusion that the experimental data in the energy range studied do not contradict a constant value for  $f^2 = 0.08$ . However, for a more rigorous demonstration of the validity of equation (1), a further accuracy is required. The regions of  $\vartheta$  in which a greater accuracy is particularly required are shown in a diagram. The authors thank Professor Ya. A. Smorodinskiy, and Professor B. M. Pontekorvo for discussions, and I. N. Kukhtina for collaboration in the work. There are 1 figure, 4 tables, and 9 references: 2 Soviet, 5 US, 1 German, and 1 Italian.

Card 2/3

SOKOLOV, S.N.; TOLSTOV, K.D.; SARANTSEVA, V.R., tekhn. red.

[Verification of counting efficiency and estimating the true  
number of events] Kontrol' effektivnosti nabludeni i otsenka  
istinnogo chisla sobytii. Dubna, Ob"edinennyi in-t iadernykh  
issledovani, 1962. 10 p. (MIRA 15:12)  
(Nuclear counters) (Mathematical statistics)

SOKOLOV, S.N.

S-matrix for the one-dimensional Schrödinger equation. Dubna,  
Izdatel'skii otdel Ob"edinennogo in-ta iadernykh issledovaniï,  
1961. 18 p.

(No subject heading)

KAZARINOV, Yu.M.; KISELEV, V.S.; SILIN, I.N.; SOKOLOV, S.N.

Determination of the  $\pi$ -meson - nucleon interaction constant from the differential cross sections of elastic pp-scattering. Zhur. eksp. i teor. fiz. 41 no.1:197-198 J1 '61. (MIRA 14:7)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Protons--Scattering) (Mesons) (Nucleons)

SOKOLOV, S.N.; SARANTSEVA, V.R., tekhn. red.

[S-matrix for the one-dimensional Schrodinger equation and  
its asymptotic behavior in the quasi-classical region]

S-matritsa dlia odnomernogo uravneniia Shredingera i ee asimp-  
totika v kvaziklassicheskoi oblasti. Dubna, Ob"edinennyi in-t  
iadernykh issl., 1962. 15 p. (MIRA 15:4)

(Differential equations) (Quantum theory)

SOKOLOV, S.N.; SILIN, I.N.

Determination of the coordinates of the minima of  
functionals by the linearization method. Dubna, Ob"-  
edinennyi in-t iadernykh issledovani, 1962. 19 p.  
(No subject heading)

SOKOLOV, S.N. (Dubna)

Continuous planning of regression experiments. Part 1. Teor. veroiat. i  
ee prim.8 no.1:95-101 '63. (MIRA 16:3)  
(Information theory) (Mathematical statistics)

SOKOLOV, S.N.

Continuous planning of regression experiments. Part 2.

Teor. veroiat. i ee prim. 8 no.3:318-324 '63.

(MIRA 16:8)

ZAKHAR'YEV, B. N.; SOKOLOV, S. N.

"Effect of Enhanced Barrier Penetrability for Complex Particles."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

OIYaI (Joint Inst Nuclear Physics)

ZAKHAR'YEV, B.N.; SOKOLOV, S.N.; SARANTSEVA, V.R., tekhn. red.

[Virtual excitations of a composite particle] 0 virtual'-  
nykh возбуждениах сложной чaстiцы. Дубна, Об'единенный  
ин-т ядерных issл., 1964. 17 p. (MIRA 17:4)

SOKOLOV, S.N.

[Nonlocal potentials and the possible upsetting of Bose and Fermi statistics] Nelokal'nye potentsialy i vozmozhnoe narushenie Bose i Fermi statistik. Dubna, Ob"edinennyi in-t iadernykh issl., 1964. 3 p. (MIRA 17:5)

L 33728-66 T IJP(c)

ACC NR: AP6025173

SOURCE CODE: GE/0061/65/015/03-/0183/0191

AUTHOR: Zakhariev, B. N.; Sokolov, S. N.

ORG: Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna

TITLE: Virtual excitation of a compound particle

SOURCE: Annalen der Physik, v. 15, no. 3-4, 1965, 183-191

TOPIC TAGS: particle physics, excitation energy, nuclear particle

ABSTRACT: The one-dimensional motion of three interacting particles was considered in the case where two formed a compound particle. The effect of the infinite number of virtual excitations was investigated for the case where the excitation energy of the compound particle grew quadratically. The population of the higher states was found to be in an inverse relation to the cube of the excitation energy. The system of equations taking into account all virtual excitations of the compound particle could be solved by the Fredholm method. Orig. art. has: 61 formulas. /Orig. art. in Eng. / JPRS/

SUB CODE: 20 / SUBM DATE: 03Sep64 / ORIG REF: 001 / SOV REF: 004

LS

Card 1/1

ACC NR: AP7002891

SOURCE CODE: UR/0419/66/000/004/0120/0123

AUTHOR: Gol'tsev, V. P.; Nekrasov, V. N.; Sokolov, S. N.

ORG: Institute of Nuclear Power, AN BSSR (Institut yadernoy energetiki AN BSSR)

TITLE: Electron microscopic study of lanthanum hexaboride  $\text{LaB}_6$

SOURCE: AN BSSR. Vestsi. Soryya khimichnykh navuk, no. 4, 1966, 120-123

TOPIC TAGS: lanthanum compound, boride, lanthanum oxide, boron, *electron microscopy*

ABSTRACT: Lanthanum boride powder was prepared by reacting  $\text{La}_2\text{O}_3$  and B powders, and studied with an EM-5 electron microscope (magnification 5000 to 140000). The interplanar spacings of the compound  $\text{LaB}_6$  were determined by electron and x-ray diffraction, and the data obtained are in satisfactory agreement with the calculated data. A small portion of the lines (3-5%) corresponds to a phase different from  $\text{LaB}_6$ , apparently,  $\text{La}_2\text{O}_3$ . The study of the shape, size and crystal structure of the synthesized powder confirmed that the product of borothermic reduction of lanthanum oxide is lanthanum hexaboride. Authors thank V. I. Lisovets for providing the  $\text{LaB}_6$  powder for the study. Orig. art. has: 3 figures, 2 tables and 1 formula.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005  
20/

Card 1/1

SEKLOV, S. N.,

"Study of Thermodynamic Properties of the Vapors of Certain Polyatomic Fluids."  
(Dissertation for Degree of Candidate for Technical Sciences) Min Higher Education  
USSR, Moscow Order of Lenin Aviation Institute Sergo Ordzhonikidze, Moscow, 1955

SO: M-1036 23 Mar 56

Sokolov, S.N.

Physical properties of silicone vapors. S. N. Sokolov  
(Aviation Inst., Moscow). *Zhur. Fis. Khim.* 30, 2734-9  
(1958).—The sp. heat  $C_p$ , the vapor pressure of the satd.  
vapors  $p = f(t)$ , and the heat of vaporization of the branched  
silicones  $[(C_2H_5)_2SiO]_n$ , b.p. 282°, congealing temp. -70°,  
mol. wt. 360, kinematic viscosity at 20° = 10 centipoise,  
 $d_{20} = 0.9623$  g./cc., were detd. experimentally. The  $C_p$ ,  
detd. in an adiabatic calorimeter can be expressed by  $C_p =$   
 $-0.2545 + 0.151 \times 10^{-4}T - (229/T^2)$ , with the vari-  
ations not exceeding 0.20%. The temp.-vapor pressure  
relation is well expressed by  $\log p = 7.185 - [2198/(T -$   
 $43)]$ , where  $T$  is the absolute temp. The heat of vapor-  
ization in the temp. interval of 100-300°  $L = 10,040T/($   
 $T - 43)$  kcal./mol. W. M. Sternberg

RM only

SOLOLOV, S.N.

Experimental study of the specific heat of certain hydrocarbon vapors. Izv. vys. ucheb. zav.; neft' i gaz 2 no.4:79-84 '59.  
(MIRA 12:10)

1.Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze.  
(Hydrocarbons--Thermal properties)

AUTHORS: Sokolov, S. N., Erastov, L. N. S/053/60/070/02/012/016  
B006/B007

TITLE: An Experiment During a Lecture for the Determination of the  
Specific Heat of a Gas at Constant Pressure

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 2, pp 379-380 (USSR)

ABSTRACT: A schematically represented device for the purpose of determin-  
ing the specific heat of a gas, which is shown in a figure,  
is described. The  $c_p$ -determination is carried out according  
to the formula  $c_p = Q/G\Delta t$ , where G denotes the gas quantity,  
Q, the quantity of heat supplied, and  $\Delta t$ , the temperature in-  
crease of the gas. A  $c_p$ -determination by means of the device  
described takes 7 to 10 minutes. There is 1 figure. ✓

Card 1/1

5.3700 2209 only <sup>86171</sup>  
S/096/61/000/001/012/014  
E194/E184

AUTHORS: Sokolov, S.N., Candidate of Technical Sciences,  
Lapushkin, S.A., Candidate of Technical Sciences, and  
Kopylov, N.I., Candidate of Technical Sciences

TITLE: The Thermal-Physical Properties of Silicone in the  
Liquid Phase

PERIODICAL: Teploenergetika, 1961, No. 1, pp. 79-81

TEXT: Although silicones are of considerable technological  
interest, very little published data exist about their thermal-  
physical properties. The silicone investigated in the present  
work was diethylpolysiloxane liquid of the following  
characteristics: molecular weight, 400; density 956 kg/m<sup>3</sup> at  
20 °C; boiling point, 282 °C at 760 mm mercury; freezing point,  
-70 °C; dynamic viscosity at 20 °C,  $9.9 \times 10^{-4}$  kg.sec/m<sup>2</sup>; and  
the corresponding kinematic viscosity, 10.1 cS. The experimental  
procedures used to measure specific heat density, thermal  
conductivity and other properties are described. The experimental  
data are given in Table 1. Table 2 gives smoothed data for

X

Card 1/2

86471  
S/096/61/000/001/012/014  
E194/E184

The Thermal-Physical Properties of Silicone in the Liquid Phase

temperature, pressure, density, specific heat at constant pressure, thermal conductivity, viscosity, latent heat of vapourisation and Prandtl's number. ✓

There are 2 tables and 7 references: 6 Soviet and 1 French.

ASSOCIATION: Moskovskiy aviatsionnyy institut  
(Moscow Aviation Institute)

Card. 2/2

27856

S/535/61/000/132/002/012

E030/E484

11.0100

AUTHORS: Sokolov, S.N., Candidate of Technical Sciences  
Tariakov, Yu.V., Engineer

TITLE: Experimental investigation of the specific heat at constant pressure of the vapours of aviation fuels, gasoline B-70 (B-70), kerosene T-1 and fuel T-5

SOURCE: Moscow. Aviatsionnyy institut. Trudy. no.132.1961.15-30. Teplofizicheskiye svoystva nekotorykh aviatsionnykh topliv v zhidkom i gazobraznom sostoyanii.

TEXT: An apparatus has been developed for measuring specific heat of vapours at constant pressure equal to or below atmospheric pressure at temperatures up to 400-500°C. It is a continuous flow system with an experimental volume of 100 cm<sup>3</sup> enclosed in a jacket evacuated to a pressure of 10<sup>-5</sup> mm Hg. the outer surface of the tube and inner surface of the jacket are silvered; the tube is mounted inside a thermostatic oven. The volume is temperature controlled to  $\pm 0.1^{\circ}\text{C}$  and heat loss corrections are made experimentally by recording temperatures with and without electric current in the heaters. The heat loss is estimated, both theoretically and graphically, to be 0.5%. The specific heat

Card 1/3

17856

S/535/61/000/132/002/012  
E030/E484

Experimental investigation of ...

results are accurate to about 0.3%. Each fuel was distilled into separate fractions, whose specific heats were determined, to minimize the errors involved in considering multicomponent mixtures. Fractions were: gasoline: 45 to 90, 90 to 120, above 120°C; T-1: 117 to 160, 160 to 170, 170 to 200, above 200°C; T-5: 210 to 222, 222 to 250, 250 to 284, above 284°C. Specific heats decreased, almost linearly, with molecular weight by about 5% total for each fuel. Thus, the data could be used to predict specific heats for any particular system involving those fractions with appropriate weighting factors. The temperature ranges covered for each fuel fraction were - gasoline: 125 to 185, 133 to 237°C for the first two fractions; T-1: 127 to 176, 170 to 200°C for the second and third fractions; T-5: 147 to 250, 201 to 273°C for the second and third fractions. There are 10 figures, 11 tables and 14 references: 5 Soviet and 9 non-Soviet. The three references to English language publications read as follows: Ref.9: Reynolds L. and Vries T., American Chemical Society, v.72, no.12, 1950; Ref.11: Still D.F. and Mayfield F.D., Industrial Engineering Chemistry, no.35, 1943, p.639; Ref.14: Waddington G.,

Card 2/3

27856

Experimental investigation of . . . S/535/61/000/132/002/012  
E030/E484

Todd S. and Huffman H., American Chemical Society, v.69, 1947.

[ Abstracter's note: No experimental values quoted.]

*AK*

Card 3/3

27864

S/535/61/000/132/010/012  
EG30/E484

11. 0100

**AUTHORS:** Sokolov, S.N., Candidate of Technical Sciences,  
Tarlakov, Yu.V., Engineer

**TITLE:** Experimental determination of the saturated vapour  
pressure of some liquid aviation fuels and calculation  
of their heat of vaporization

**SOURCE:** Moscow. Aviatsionnyy institut. Trudy. no.132. 1961.  
116-122. Teplofizicheskiye svoystva nekotorykh  
aviatsionnykh topliv v zhidkom i gazoobraznom  
sostoyanii.

**TEXT:** A simple manometric apparatus was used with an adjustable  
limb of mercury to enable the vapour:liquid ratio to be kept  
constant. The system was tested with carbon tetrachloride  
and agreed to 2% with the tables of Kaye and Laby over the range  
21 to 64°C. For gasoline and T-1, the vapour:liquid ratio was  
held at 4:1, and data obtained for the fuel and for the three cuts  
into which it was fractionated; the data cover 20 to 150°C  
(gasoline) and 20 to 230°C (T-1). For T-5, two ratios were used,  
2:1 and 4:1, and data cover 20 to 270°C. Latent heats of  
vaporization were obtained from the Clausius-Clapeyron relation, ✓  
Card 1/2

87864

S/535/61/000/132/010/012

E030/E484

Experimental determination of ...

ignoring the small correction for specific volume of liquid, and  
determining the specific volume  $v_{\text{vap}}$  of vapour from the relation

$$v_{\text{vap}} = \frac{RT}{p}$$

The values, of the order of 7200 kcal/mole are listed for each  
fraction and for intervals in the range 20 to 200°C. There are  
1 figure and 6 tables.

*Handwritten mark*

Card. 2/2

SOKOLOV, S.N.; PYATIBRATOV, S.N.

Thermal capacity of liquid hydrocarbons of the methane series.

Izv. vys. ucheb. zav.; neft' i gaz 5 no.7:83-88 '62.

(MIRA 16:7)

1. Moskovskiy aviatsionnyy institut imeni Ordzhonikidze.  
(Hydrocarbons--Thermal properties)

S/152/63/000/003/004/005  
B117/B186

AUTHORS: Vargaftik, N. B., Kopylov, N. I., Lapushkin, S. A.,  
Pyatibratov, S. N., Sokolov, S. N.

TITLE: Thermophysical properties of monoisopropyl diphenyl

PERIODICAL: Izvestiya vysshikh uchebnykh zavodeny., Neft' i gaz,  
no. 3, 1963, 75-78

TEXT: Results are given of detailed investigations into the thermo-physical properties of monoisopropyl diphenyl in the liquid phase and the pressure of its saturated vapor. Properties of the sample investigated: molecular weight 197,  $n_D^{25} = 1.5696$ , density at  $20^\circ\text{C}$   $\rho = 0.969 \text{ g/cm}^3$ , boiling point  $286^\circ\text{C}$  (760 mm Hg). Conventional measuring methods were used. The specific heat ( $c_p$ ) and the density ( $\rho$ ) were measured with a calorimeter at  $20-398^\circ\text{C}$  and 10 atm with a maximum error of 0.3% for the density and 1.5% for the specific heat. The heat conductivity ( $\lambda$ ) was measured with a heated wire at  $30-209^\circ\text{C}$ , under atmospheric pressure, with an accuracy of 1%. The viscosity ( $\eta$ ) under the pressure of saturated monoisopropyl

Card 1/3

Thermophysical properties of ...

S/152/63/000/003/004/005  
B117/E186

diphenyl vapor was measured at 20-340°C with a maximum error of 1%. The pressure of the saturated vapor ( $p_s$ ) was measured at 96-309°C. The error was 0.2°C for the temperature determination and 2 mm for the pressure. To determine the thermophysical properties of monoisopropyl diphenyl, the experimental amounts were generalized for smoothed temperature values, as tabulated (Table 2). The table also gives calculated values of the heat of vaporization ( $r$ ) and the Prandtl numbers required for calculating the heat exchange. There are 2 tables.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. S. Ordzhonikidze  
(Moscow Aviation Institute imeni S. Ordzhonikidze)

SUBMITTED: January 17, 1963

Table 2. Smoothed values for the thermophysical properties of monoisopropyl diphenyl.

Card 2/3

Thermophysical properties of...

S/152/63/000/003/004/005

3117/3186

t, °C	$\rho \cdot 10^3$ g/cm <sup>3</sup>	$c_p$ cal/g·°C	$\lambda \cdot 10^5$ cal/cm·sec·°C	$\eta \cdot 10^2$ g/cm·sec	$\zeta_s$ mm Hg	r cal/g	Pr
20	0,969	0,412	303	14,1	—	—	19
40	0,962	0,432	297	6,29	—	—	91,5
60	0,953	0,446	289	3,47	—	—	53,4
80	0,943	0,462	283	2,22	—	—	36,2
100	0,932	0,478	278	1,57	1,5	77,0	27,0
120	0,920	0,494	272	1,17	3,5	75,8	21,3
140	0,907	0,510	266	0,890	8,5	75,0	17,1
160	0,893	0,526	261	0,690	19	74,2	13,9
180	0,878	0,542	255	0,555	39	73,3	11,8
200	0,861	0,560	247	0,456	77	72,5	10,3
220	0,845	0,578	241	0,384	142	71,6	9,22
240	0,827	0,597	236	0,330	249	70,5	8,35
260	0,809	0,616	230	0,289	418	69,2	7,74
280	0,791	0,637	225	0,254	671	67,7	7,19
300	0,773	0,658	216	0,224	1042	65,7	6,76
320	0,753	0,681	211	0,198	1570	63,5	6,39
340	0,734	0,705	205	0,175	2291	60,9	6,02
360	0,714	0,730	200	0,155	3266	57,9	5,66
380	0,694	0,758	192	0,137	4539	54,5	5,41
400	0,674	0,788	183	0,124	6194	50,9	5,34

Card 3/3

ACCESSION NR: APL002283

S/0139/63/000/005/0179/0180

AUTHORS: Sokolov, S. N.; Nikhamina, G. Ya.

TITLE: Laboratory apparatus for determination of specific heat of gases at constant pressure ( $C_p$ ) by a continuous flow method

SOURCE: IVUZ. Fizika, no. 5, 1963, 179-180

TOPIC TAGS: specific heat of air, air at constant pressure, continuous flow method, specific heat of gas, specific heat isobaric measurement, adiabatic flow, calorimeter, calorimetry, thermocouple pyrometer, constant pressure specific heat

ABSTRACT: A laboratory apparatus using a continuous flow method for determination of the specific heat of air at constant pressure ( $c_p$ ) is described. The basic features are shown in Fig. 1 on the Enclosure. An air blower (1) and a 10-liter cylinder (2) to smooth out pressure variations supply a steady flow of air at a constant pressure  $p$  to the calorimeter (3). The volume  $V$  of air passing through the calorimeter in a time  $\tau$  is measured by a gas counter (5). An electric heater (4) heats the gas, causing a temperature difference  $\Delta t$  to exist between the entrance

Card

1/12

ACCESSION NR: AP4002283

and exit of the calorimeter. This temperature difference is determined by copper-constantan thermocouples (9) and (10), the emf of which is measured by a potentiometer (11). Tables are available for determining  $\Delta t$  from the emf. The current  $I$  and voltage  $V$  supplied to the heater are measured by the ammeter (6) and voltmeter (7) respectively and can be varied by the rheostat (8). To reduce heat loss, the calorimeter is enclosed by a vacuum Dewar jacket. From the definition of specific heat and using the equation of state of an ideal gas,

$$c_p = \frac{0.24 IU + RT}{p V \Delta t \mu}$$

where  $R$  is the universal gas constant.  $\mu$  is the molecular weight of air and  $T$  is the average absolute temperature of the gas in the calorimeter. Here  $T$  is room temperature plus  $\frac{1}{2}\Delta t$ . Good results over the course of two years have been obtained with this apparatus by students. Orig. art. has: 9 equations and 2 diagrams.

ASSOCIATION: Moskovskiy aviatsionniy institut imeni S. Ordzhonikidze (Moscow Aeronautical Institute)

SUBMITTED: 13Aug62

DATE ACQ: 02Dec63

ENCL: 01

Card

2/4 ✓

SOKOLOV, S.N.

New equation for calculating the heat capacity of certain  
liquid hydrocarbons at different temperatures. Izv. vys. ucheb.  
zav.; neft' i gaz 7 no.11:69-70 '64. (MIRA 18:11)

1. Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze.

SOKOLOV, S. N.

Pn-2T14

USSR/Oil Drills

Jan-Feb 1947

"The Mark ZIV-75 drill of the Vorovskiy Factory  
at Sverdlovsk," S N Sokolov, 3 pp

"Razvedka Nedr" Vol 30, No 1

Description and operating data of a small oil-drill  
capable of drilling to a depth of 75 meters

2T14

IVANOVA, G.A., inzhener; SOKOLOV, S.N., inzhener.

Use of the method of statistical analysis for the evaluation of the quality  
of equipment repair. Vest.mash. 33 no.10:95-99 0 '53. (MLRA 6:10)  
(Quality control) (Machinery--Maintenance and repair)

SOKOLOV, S. N.

6680. SOKOLOV, S. N. Statisticheskiye metody analiza kachestva produkcii v mekhanicheskikh tsekhakh. pod obshch. red. s. l. anan'yeva. m., oborongiz, 1955. 47 s. s graf. 23 sm. (materialy po obmenu proizvod. - tekhn. opytom). bespl. -- bibliogr: s. 41 (12 nazv.) - (55-2994) p 621.7/9:658.562+658. .562:519.2+(016.3)

SO: Knizhaya Letopis, Vol. 6, 1955

SOKOLOV, S.N., kandidat tekhnicheskikh nauk; IVANOVA, G.A., kandidat tekhnicheskikh nauk.

Degree of dependability of quality control in continuous production.  
Standartizatsiia no.3:58-62 My-Je '56. (MLRA 9:9)  
(Machinery industry--Quality control)

SOKOLOV, S. N.

"Possible Errors in Determining Temperature by Means of the  
Comb-Type Radiosonde," Trudy NIU GUGMS / Proceedings of the Scientific  
Research Institute of the Main Administration of Hydrometeorological Service /,  
NO 19, 1946.

AGAFQV, Sergey Vasil'yevich; SOKOLOV, Sergey Nikolayevich;  
TIKHOMIROV, Dmitriy Ivanovich; FISHCHEVA, T.V., red.;  
BORISKINA, V.I., red.kart; KORNEYEVA, V.I., tekhn.  
red.

[Geographical dictionary] Geograficheskii slovar'. Mo-  
skva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR,  
1961. 155 p. (MIRA 15:4)  
(Geography--Dictionaries)

SOKOLOV, S.P.

DECEASED  
C' 1959

1962/6

SEE IIC

NUCLEAR PHYSICS

PATKANOV, N.M.; YATSUN, N.F.; DVORETSKIY, I.V., inzhener; SOKOLOV, S.P.,  
inzhener

Determining the shape of shuttle tips for the picking mechanism of  
type-H automatic looms. Tekst.prom.15 no.8:30-32 Ag '55.  
(MLRA 8:11)

1. Glavnyy inzhener fabriki imeni Dzerzhinskogo Glavlenskhlopproma  
(for Patkanov) 2. Nachal'nik tkatskogo tsekha fabriki imeni Dzer-  
zhinskogo Glavlenskhlopproma (for Yatsun).  
(Pickers (Weaving))

*Sokolov*  
BUSLOVICH, G.Ya.; SOKOLOV, S.P., kandidat tekhnicheskikh nauk.

New abrasive tools used in honing. Vest.mash.36 no.12:49-51 D '56.  
(Abrasives) (Grinding and polishing) (MLBA 10:2)

SOKOLOV, Sergey Pavlovich; SHNEYDER, Yu.G., kand. tekhn. nauk, retsenzent;  
KUDASOV, G.F., kand. tekhn. nauk, red.; GIYASS, V.D., inzh., red.;  
BORODULINA, I.A., red. izd-va; NIKOLAYEVA, I.D., tekhn. red.

[Fine grinding and lapping] Tonkoe shlifovanie i dovodka. Pod ob-  
shchei red. G.F.Kudasova. Moskva, Gos. nauchno-tekhn. izd-vo mashi-  
nostroit. lit-ry, 1961. 85 p. (Bibliotekha shlifovshchika, no.9)  
(MIRA 14:10)

(Grinding and polishing)

PESHKOVA, V.M.; SHLENSKAYA, V.I.; SOKOLOV, S.S.

Photometric determination of palladium with  $\alpha$ -furyldioxime.  
Trudy kom. anal. khim. 11:328-338 '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Palladium--Analysis) (Furaldehyde)

VASIN, L.V., inzh.; AKHUN, B.N., inzh.; IVANCHENKO, N.N., kand. tekhn. nauk; KOLLEROV, L.K., kand. tekhn.nauk; NIKITINA, N.V., inzh.; SOKOLOV, S.S., kand. tekhn. nauk; FODIN, A.A., red.; YURKEVICH, M.P., red. izd-va; PETERSON, M.M., tekhn. red.; SPERANSKAYA, O.V., tekhn. red.

[Diesel and gas engines; catalog-handbook] Dizeli i gazovye dvigateli; katalog-spravochnik. Pod red. A.A.Fadina. Moskva, Mashgiz, 1961. 279 p. (MIRA 14:12)

1. Leningrad. Tsentral'nyy nauchno-issledovatel'skiy dizel'nyy institut.

(Gas and oil engines)

KAVALEROV, G.I.; KAVERKIN, I.Ya.; SOKOLOV, S.S.

Definition of the concept of mensuration. Izv.tekh. no.8:1-3  
Ag '62. (MIRA 16:4)

(Mensuration)

SOKOLOV, S.P.

Honing holes in aluminum alloy parts. Stan. i instru. 36 no.1:6  
Ja '65. (MIRA 18:4)

MUSHEGYAN, A.M., prof., doktor biolog. nauk; SOKOLOV, S.Ya., prof.,  
doktor biol. nauk, otv. red.; KOROL', A.Ya., red.;  
NAGIBIN, N., tekhn. red.

[Wild and introduces trees and shrubs of Kazakhstan] Derev'ia  
i kustarniki Kazakhstana, dikorastushchie i introdutsirovannye.  
Alma-Ata, Kazsel'khozgiz. Vol.1. [Gymnosperm families: Pinaceae-  
Ephedraceae. Angiosperm families: Salicaceae - Saxifragaceae]  
Golosemennye semeistva: Sosnovye-efedrovye. Pokrytosemennye se-  
meistva: Ivovye-kannelomkovye. 1962. 362 p. (MIRA 16:5)  
(Kazakhstan--Woody plants)

SOKOLOV, S.S.

Healing of wounds in radiation sickness. Vest.rent. i rad. 31 no.1:  
30-41 Ja-P '56. (MLRA 9:7)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I.Blinov) i  
kafedry meditsinskoy radiologii (zav. - prof. M.N.Pobedinskiy)  
Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey  
imeni S.M.Kirova.

(ROENTGEN RAYS, eff.  
exper. wds., healing)

SOKOLOV, S.S.

Sliding inguinal heria of the colon. Khirurgiia 32 no.2:46-48  
F '56. (MLRA 9:7)

1. Iz 3-y khirurgicheskoy kliniki (zav. prof. N.I.Blinov) Lenin-  
gradskogo gosudarstvennogo instituta usovershenstvovaniya vrachev.  
(HERNIA, INGUINAL  
sliding of colon)

SDKOL045.5.

"Concerning Certain Peculiarities of the Clinical Course of Surgically Treated Wounds After a Preliminary Total Irradiation of Experimental Animals," by S. S. Sokolov, Third Surgical Clinic (head, Prof N. I. Blinov) and Chair of Medical Radiology (head, Prof M. N. Pobedinskiy), State Order of Lenin Institute for Advanced Training of Physicians imeni S. M. Kirov, Vestnik Khirurgii, Vol 77, No 6, Jun 56, pp 42-47

Studies on the course of wounds in irradiated guinea pigs suffering from acute radiation sickness proved that the most characteristic syndromes were leukopenia with the white count diminishing down to 2,000 and 1,000 white cells per cubic millimeter, and excessive hemorrhage at the periphery of the wounds. Typical signs of general wound inflammation were absent and hemorrhages frequently complicated the postoperative period. (U)

Sym.1360

~~SCHELOV, S.S.~~  
SCKOLOV, S.S.

Dermoid cysts of the sacrococcygeal region. Sov.med. 21 Supplement:  
28 '57. (MIRA 11:2)

1. Iz tret'yey khirurgicheskoy kliniki Leningradskogo instituta  
usovershenstvovaniya vrachey imeni S.M.Kirova.  
(CYSTS) (SACROCOCCYGEAL REGION--TUMORS)

BYSTROVA, V.V., SOKOLOV, S.S.

Morphological characteristics of wound healing processes in radiation sickness. Med.rad. 3 no.5:71-77 S-O '58 (MIRA 11:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.V. Sipovskiy) i 3-y khirurgicheskoy kliniki (zav. - prof. M.I. Blinov) Leningradskogo instituta dlya usovershenstvovaniya vrachey imeni S.M. Kirova.

(ROENTGEN RAYS, eff.

on exper. wds. healing (Rus))

(WOUNDS AND INJURIES, exper.

eff. of x-rays on healing (Rus))

SOKOLOV, S.S. (Leningrad, Khersonskaya ul., d.2/9, kv.37)

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[with summary in English]. Vop.onk. 4 no.3:329-332 '58 (MIRA 11:8)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Blimov)  
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S.M. Kirova (dir. - prof. N.I. Blimov).

(INTESTINE, LARGE, neoplasms,  
surg., recto-sigmoid resect. with invagination method  
(Rus))

SOKOLOV, S.S., kand.med.nauk

Extra-articular osteomyelitis of the femur neck. Khirurgia  
35 no.4:121-123 Ap '59. (MIRA 12:8)

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F.G.Uglov) i Leningradskogo meditsinskogo instituta imeni  
akad. I.P.Pavlova.

(OSTEOMYELITIS, case reports

femur neck, extra-articular, surg. (Rus))

(FEMUR NECK, dis.

osteomyelitis, extra-articular, surg. (Rus))

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(HEART—SURGERY) (HYPOTHERMIA)

UGLOV, F. G.; SOKOLOV, S. S.

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(HEART—ABNORMITIES AND DEFORMITIES)

USLOV, F.G.; KURBANGALEYEV, S.M.; BOKAREV, Yu.N.; VORONOV, A.A.; DECTYAREVA,  
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PASSVETAYEV, I.L.; SIMBIRTSEV, S.A.; SOKOLOV, S.S.

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(MIRA 15:8)

(PERFUSION PUMP (HEART))

UGLOV, F.G. (Leningrad, Ordinarnaya, d.20, kv.5); SOKOLOV, S.S.

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of the interauricular septum. Grud. khir. 2 no.4:6-14 J1-Ag '60.  
(MIRA 15:6)

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Uglov) i kafedry operativnoy khirurgii (zav. - prof. M.A.  
Sreseli) I Leningradskogo meditsinskogo instituta imeni  
I.P. Pavlova.

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Contrast investigation of the heart and large vessels by the  
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KARATOVA, V.A.

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SOKOLOV, S.S. (Leningrad, Khersonskaya ul., d.2/9, kv.37); KARTAVOVA, V.A.

Significance of the catheterization of the heart and major vessels in the diagnosis of an abnormal emptying of the pulmonary veins into the venous stream. Grud. khir. 6 no.2:37-44 Mr-Ap '64. (MIRA 18:4)

1. Gosptal'naya khirurgicheskaya klinika (zav. - prof. F.G. Uglov) i kafedra rentgenologii (zav. - prof. D.G. Rokhlin) I, Leningradskogo meditsinskogo instituta imeni Pavlova.

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AUTHORS: Sokolov, S.S. and Churinov, M.V.

TITLE: On Foreign Methods of Research into the Shear Strength  
of Argillaceous Soils

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 7, pp 59-62 (USSR)

ABSTRACT: Different methods of research on the shear strength  
of argillaceous soils in USA, Germany and in Scandi-  
navian countries are described in this article. There  
are 2 tables and 5 graphs.

ASSOCIATION: VSEGINGEO

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